

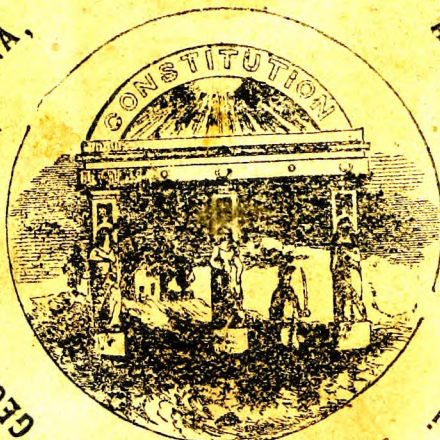




# GRIER'S SOUTHERN ALMANAC

FOR THE STATES OF

SOUTH CAROLINA,  
MISSISSIPPI,  
GEORGIA,



ALABAMA, TENNESSEE,  
LOUISIANA,

FOR THE YEAR OF OUR LORD

# 1863

Being the Third after Bissextile or Leap-Year, and the Third  
of Southern Independence, and (until 4th of July,)  
the Eighty-seventh of the Independence of  
the United States.

Calculated for the Latitude and Meridian of AUGUSTA, GA.;  
**AND WILL SERVE FOR THE ADJACENT STATES,**  
By T. P. ASHMORE, OF AMERICUS, GA.

Published for the Trade by F. H. SINGER, Augusta, Ga.

**HERTY & HALL,**  
MILLEDGEVILLE, GA.



### SIGNS OF THE ZODIAC AND INFLUENCE OF THE MOON

THE MOON is supposed by some to have a special influence upon different parts of the bodies of men and animals, as it passes through the signs of the Zodiac. The following cut is inserted for the sake of those who believe in this imaginary influence, and is intended to represent the part of the body affected by the Moon when it is in any particular sign of the Zodiac. By finding the Moon's place in the proper column of the calendar pages, and comparing it with this cut, the particular part which is supposed to be affected, will soon be seen. Thus, when the Moon is in Aries ( $\varphi$ ), it is supposed to influence the head and face; when in Capricornus ( $\wp$ ) the knees, etc.

$\varphi$  Governs the FACE and HEAD.

$\Pi$   
ARMS.

$\Omega$   
HEART.

$\cap$   
REINS.

$\dagger$   
THIGHS.

$\approx$   
LEGS.



$\gamma$   
NECK.

$\text{♋}$   
BREAST

$\text{♍}$   
BOWELS

$\text{♎}$   
SECRETS

$\text{♏}$   
KNEES.

$\text{♐}$  FEET.

#### NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

$\varphi$  Aries, the Ram.  $\gamma$  Taurus, the Bull.  $\Pi$  Gemini, the Twins.  $\text{♋}$  Cancer, the Crab.  $\Omega$  Leo, the Lion.  $\text{♍}$  Virgo, the Virgin.  $\cap$  Libra, the Balance.  $\dagger$  Scorpio, the Scorpion.  $\text{♎}$  Sagittarius, the Archer.  $\wp$  Capricornus, the Goat.  $\approx$  Aquarius, the Waterman.  $\text{♏}$  Pisces, the Fishes.

#### CHRONOLOGICAL CYCLES.

Dominical Letter, .....	D	Solar Cycle, .....	24
Golden Number, .....	2	Roman Indiction, .....	6
Epoct, (Moon's age,) Jan. 1st.....	11	Julian Period .....	6576

#### MOVEABLE FEASTS OF THE CHURCH.

Septuagesima Sunday	Feb. 1	Rogation Sunday,	May 10
Quinquagesima or Shrove Sunday,	Feb. 15	Ascension Day,	May 14
Ash-Wednesday,	Feb. 18	Whit-Sunday,	May 4
Palm Sunday,	Mar. 29	Advent Sunday	Nov. 29
Easter Sunday.	April 5		



**ECLIPSES FOR 1863.**

The first will be of the Sun, on the 17th of May, at 41h. 15m. A. M., invisible in America.

The second will be a total Eclipse of the Moon, on the 1st day of June, partially visible, and is calculated to apparent time, as follows :

	DAY.	H.	R.	MIN.	SEC.	
The Eclipse begins on June	1	4	17	38		} P. M.
Beginning of total darkness	"	5	24	36.		
End of total darkness	"	6	31	18.		
The Moon will rise at Augusta	"	7	1	0,		
with 7 2-10 digits eclipsed on her						
Western limb						
The Eclipse will end	"	7	38	16.		} P. M.
Duration of visibility	"	9	37	16.		

The third will be of the Sun, on the 11th of Nov., at 2h. 36m. A. M., invisible in America.

The fourth will be of the Moon, on the 25th day of November, visible and nearly total throughout the continent of America, and is calculated to apparent time, as follows :

	DAY.	H.	R.	MIN.	SEC.	
Beginning at Augusta, Ga.,	Nov. 25	1	57	14.		} A. M.
Middle of Eclipse	"	3	37	53.		
Ecliptic Opposition	"	3	43	21.		
End of Eclipse	"	5	18	32.		
Duration	"	3	21	18.		

Digits eclipsed 11 1 2, on the Moon's north limb.

At the greatest obscuration, about 1-24 part of the Moon's diameter, will remain uneclipsed.

**EQUINOXES AND SOLSTICES.**

Verual Equinox, . . . . .	(Spring begins) . . . . .	March 21st.
Summer Solstice, . . . . .	(Summer begins) . . . . .	June 21st.
Autumnal Equinox, . . . . .	(Autumn begins) . . . . .	Sept. 23d.
Winter Solstice, . . . . .	(Winter begins) . . . . .	Dec. 21st.

**ASPECTS OF THE PLANETS.**

The Planet Venus will be Evening Star till September 29th, then Morning Star till the end of the year.

Jupiter will be in opposition with the Sun, on the 12th of April, when he will shine with his greatest brilliancy.

Saturn will be in opposition with the Sun, on the 20th of March, when he will be brightest.

Mars will be too near the Sun to afford any favorable opportunity of viewing him this year.

**THE TWELVE SIGNS OF THE ZODIAC.**

Spring Signs, . . . . .	1. ♉ Pisces.	2. ♈ Aries.	3. ♉ Taurus
Summer Signs, . . . . .	4. ♊ Gemini	5. ♋ Cancer.	6. ♌ Leo.
Autumn Signs, . . . . .	7. ♍ Virgo.	8. ♎ Libra.	9. ♏ Scorpio.
Winter Signs, . . . . .	10. ♐ Sagitt'us	11. ♑ Capri'us.	12. ♒ Aquarius.

The first six are called Northern Signs, and the other six Southern Signs.



TABLE OF THE PRINCIPAL BODIES IN THE SOLAR SYSTEM.

Name.	Mean Distance from the Sun.	Mean Distance from the Sun.	Revolu- tion around the Sun.	Revolu- tion on Axis.	Velocity per An. in orbit.	Size—the Earth being 1.	Dens- ity—Earth being 1.	Light, Earth being 1.
	Stiles.	Miles.	Yrs. days.	d. h. M.	Miles.			
THE SUN.	883,216			25 0 59		1,412,321,101	0.252	Indis-
Mercury.	3,224	36,814,000	88	1 6 5	1,837	0,953	1.139	6.650
Venus.	7,537	63,787,000	224	23 21	1,338	0,909	0.923	1.911
The Earth.	7,912	93,193,000	1	23 56	1,133	1,000	1.000	1.030
The Moon.	2,180	95,103,000	1	27 7 43	35	8,920	0.615	1.009
Mars.	4,189	144,908,000	1	321 1 0 37	921	0,125	0.943	0.431
Jupiter.	80,170	494,797,000	11	215 9 56	496	1,456,080	0.233	0.937
Saturn.	79,042	907,162,000	29	167 13 29	365	771,000	0.133	0.911
Uranus.	35,112	1,934,290,000	84	6 1 13 33	259	89,000	0.242	0.913
Neptune.	4,500	2,854,029,000	164	226	208	143,960	0.149	0.941

NOTE.—There are more than fifty small Planets or Asteroids, between the orbit of Mars and Jupiter.

## MEAN AND APPARENT TIME.

MEAN TIME is the time indicated by a well-regulated clock or watch running without variation, so as to make the day, or 24 hours, equal to the Mean Time at which the Sun comes to the meridian during the year. Apparent Time is the time which makes the Sun come to the meridian every day at 12 o'clock. On account of the ellipticity of the earth's orbit, and its inclination to the equator, the sun does not always come to the meridian in exactly the same time; and hence, Apparent Time is irregular, and either gradually falls behind Mean Time, or gains on it, sometimes to the amount of more than sixteen minutes. When the Sun comes to the meridian earlier than the Mean Time, it is said to be fast; but when it comes to it later, it is said to be slow; and the amount by which Apparent Time differs from Mean Time is called the Equation of Time. In order to set a timepiece according to Mean Time, it is necessary to have a dial, or noon mark; and allowance must be made for the Equation of Time. This Almanac is in Mean Time.

## EXPLANATION OF THE SIGNS USED IN THIS ALMANAC.

☾ New Moon, and Moon generally, ☾ First Quarter, ☾ Full Moon, ☾ Last Quarter ☾ Moon's ascending node, or dragon's head. ☾ Moon's descending node, or dragon's tail. In AROGEE—Moon farthest from the Earth. In PERIGEE—Moon nearest the earth. ☼ Highest—Moon farthest North. ☼ Lowest—Moon farthest South. ♄ Saturn. ♀ Venus ☿ near together. ♃ Jupiter. ☿ Mercury ☐ 30 deg. apart. ♂ Opposition or 180 degrees apart. ♂ Mars. 7\* Stars. ☼ Sun. ♃ Herschel.

Complete Court Calendars, &c. for the States of Alabama and Tennessee, will be inserted in orders of 10 gross and upwards from dealers ordering for circulation in those states respectively.

NOTE. Any person solving ten of the Problems contained in this Almanac, and sending to me at Americus, Ga., by the 15th of May next, the correct answers to the same, shall have the same acknowledged in the Almanac for 1864.

A few original problems for 1864, are solicited. They must be thoroughly solved and explained, in order to meet with attention.

T. P. ASHMORE.



## MOON'S PHASES.

	D.	H.	M.	
Full Moon,	4	9	46	eve.
Last Quarter	12	1	43	eve.
New Moon,	19	9	54	mo.
First Quarter,	26	3	45	eve.

## PROBLEMS.

1. What must be the diameter of a balloon, in order that it may ascend with four persons, weighing each 160 pounds, and the balloon and bag of sand weighing 66 pounds.

D.	D	Various Phenomena.	Sun	Sun	Moon	Moon	High and
of	of		rises	sets	MOON	ri & sets	LOWERS
M.	W		H.M.	H.M.	MOON	M. M. H. M.	
1	Thur	New Year's Day. Cold	7	4 45	II	4 5	5 5
2	Frid	☼ in Perigee and	7	4 57		5 0	7 10
3	Satur	☾ highest chilly weather	7	4 57	☾	5 50	8 8
4	S.	Princeton Battle, 1777.	7	3 45		rises.	9 0
5	Mon	Cloudy and	7	2 45	☾	6 15	9 45
6	Tues	Epiphany. cold.	7	2 45		7 8	10 25
7	Wed		7	2 45	☾	8 20	11 2
8	Thur	Bat. N. Orleans, 1815.	7	1 45		9 18	11 38
9	Frid	Fair and frosty.	7	1 45		10 18	E. 14
10	Satur	Aldebaran sou 9h 8m.	7	0 5	☾	11 25	6 47
11	S.	Ala. & Fla. seced., '61.	7	0 5		moon	1 24
12	Mon	Now more pleasant.	6	58 5	I	9 30	2 2
13	Tues	Richard H. killed, 1490.	6	59 5	I	1 40	2 46
14	Wed	N. E. Winds	6	58 5	2	2 50	3 4
15	Thur	and any	6	58 5	2	3 45	5 0
16	Frid	☾ lowest	6	57 5	☾	4 45	6 2
17	Satur	Bat. Cowpens, 178	6	57 5	3	5 30	7 30
18	S.	flying clouds.	6	56 5	4	6 31	8 16
19	Mon	Capella sou. 9h. 11m.	6	55 5	5	sets.	9 2
20	Tues	☼ enters ♍ Geo sec '61.	6	55 5	5	6 30	9 45
21	Wed	High winds from	6	54 5	6	7 34	10 25
22	Thur	Rigel sou. 8h. 48m.	6	54 5	6	8 25	11 5
23	Frid	N. W. and cold.	6	53 5	7	9 21	11 45
24	Satur	Augusta arsenal tak '61	6	52 5	8	10 10	Morn
25	S.	Cold and	6	51 5	9	11 8	0 28
26	Mon	Sirius sou. 10h. 16m.	6	51 5	9	moon	1 17
27	Tues	Cloudy.	6	50 5	10	0 7	1 59
28	Wed	Perhaps snow	6	49 5	II	1 8	2 57
29	Thur	Prof F. C. Bond died 59.	6	48 5	12	2 2	4 9
30	Frid	☾ highest.	6	48 5	☾	2 56	5 34
31	Satur	or sleet.	6	47 5	13	3 06	5



## MOON'S PHASES.

D. H. M.

Full Moon 3 4 39 eve.  
 Last Quarter 11 1 51 mo.  
 New Moon 17 9 30 eve.  
 First Quarter 25 9 16 mo.

2. If the mercury in a barometer, at the bottom of a tower, be observed to stand at 30 inches, and, on being carried to the top of it, be observed 29.9 inches, what is the height of the tower?

3 Suppose a piece of marble contains 8 cubic feet, and weighs 1,353½ lbs., what is the specific gravity?

D. of M.	D. of W.	Various Phenomena.	Sun rises H. M.	Sun sets H. M.	MOON'S PLACE.	Moon ri. H. M.	st. H. M.	High tide Savannah M.
1	S.	Septuagesima S.	6 46	5 14	☾	4 20	8 1	
2	Mon.	Purification B. V. Mary.	6 45	5 15		5 15	8 49	
3	Tue.	<i>Fair and frosty.</i>	6 44	5 16	☾	5 47	9 32	
4	Wed.	[1780	6 44	5 16		rises.	10 9	
5	Thu.	Earthquake at Sicily,	6 43	5 17	☾	8 30	10 4	
6	Fri.	<i>Damp and</i>	6 42	5 18		9 14	11 14	
7	Satu.	Sirius sou. 9h. 25m.	6 41	5 19	☾	10 25	11 46	
8	S.	<i>cloudy weather.</i>	6 40	5 20		11 0 E	1	
9	Mon.		6 39	5 21	☾	11 30	0 44	
10	Tue.	Pro. Gov. Con. Stat.'61.	6 38	5 22		11 59	1 25	
11	Wed.	Revolution in Demingo.	6 37	5 23		morn.	2 4	
12	Thu.	☾ lowest. [1807.	6 36	5 24	☾	0 36	2 3	
13	Fri.	<i>Wind and</i>	6 36	5 24		1 48	4 8	
14	Sat.	Valentines <i>cold.</i>	6 35	5 25	☾	2 43	5 29	
15	S.	Quinquag. Sun.	6 34	5 26		3 56	6 47	
16	Mon.	Melancthon born, 1497.	6 33	5 27		4 50	7 52	
17	Tue.	Sirius souths 8h. 50m.	6 32	5 28	☾	sets.	8 27	
18	Wed.	Ash Wednesday.	6 31	5 29		7 30	9 22	
19	Thu.	Sun enters ☿	6 30	5 30	☾	8 41	10 2	
20	Fri.	<i>Much cloudy.</i>	6 29	5 31		9 39	10 44	
21	Sat.	<i>weather and</i>	6 28	5 32		10 25	11 27	
22	S.	Washington born, 1732.	6 27	5 33	☾	10 49	morn.	
23	Mon.	<i>some rain.</i>	6 26	5 34		11 20	0 16	
24	Tue.	St. Mathias.	6 25	5 35	☾	11 58	0 54	
25	Wed.	<i>Now more pleasant.</i>	6 24	5 36		morn.	1 41	
26	Thu.	☾ highest.	6 23	5 37	☾	0 56	2 36	
27	Frid.	Procyon south 9h. 3m.	6 22	5 38		1 47	3 49	
28	Satu.	<i>at the end of this month.</i>	6 21	5 39	☾	2 36	5 10	



3d Month.]

MARCH, 1863.

[31 Days.]

## MOON'S PHASES.

	D.	H.	M.
Full Moon	5	9	21 mo
Last Quarter	12	0	15 eve
New Moon	19	9	17 mo
First Quarter	27	3	14 mo

4. The diameter of a balloon is 2,665 feet, what weight is it capable of raising?

5. What is the solidity in inches of several fragments of clear glass, whose weight is 13 ounces?

D.	D	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises & sets	High tide Savan'ah
of M	of W		H. M.	H. M.		H. M.	H. M.
1	S.	St. David.	6 20	5 40		3 35	6 40
2	Mon	Procyon Sou. 9 h. 48 m.	6 19	5 41	☾	4 6	7 43
3	Tues	<i>Fair and frosty.</i>	6 18	5 42		4 44	8 29
4	Wed	Pollux Sou. 8 h. 44 m.	6 17	5 43	☽	5 19	9 10
5	Thur	La Place died, 1827.	6 16	5 44		rises.	9 43
6	Frid	<i>Cloudy and damp.</i>	6 15	5 45	☾	7 7	10 17
7	Satur	Regulus Sou. 10 h. 56 m.	6 14	5 46		8 0	10 46
8	S.	<i>Cold winds.</i>	6 13	5 47		8 53	11 17
9	Mon	Regulus Sou. 10 h. 48 m.	6 12	5 48	☾	9 45	11 48
10	Tues	<i>from the N. W.</i>	6 11	5 49		10 37	Ev. 18
11	Wed	☽ lowest.	6 10	5 50	☾	11 29	0 59
12	Thur		6 9	5 51		morn.	1 30
13	Frid	☽ discovered 1781.	6 8	5 52	☾	0 26	2 19
14	Satur	<i>More mild.</i>	6 7	5 53		1 10	3 24
15	S	Jackson born, 1767.	6 6	5 54		1 57	4 51
16	Mon	Regulus sou. 10 h. 21 m.	6 5	5 55	☾	2 43	6 11
17	Tues	St. Patrick.	6 4	5 56		3 27	7 18
18	Wed	<i>Stormy and</i>	6 3	5 57	☾	4 9	8 8
19	Thur	<i>unpleasant weather.</i>	6 2	5 58		sets.	8 53
20	Frid	☽ ☼ ☽ rises 5 h. 59 m.	6 1	5 59		7 40	9 35
21	Satur	Days and nights equal.	6 0	6 0	☽	8 35	10 21
22	S.	<i>Fair and more</i>	5 59	6 1		9 0	11 4
23	Mon	Regulus sou. 9 h. 58 m.	5 58	6 2	☽	10 0	11 51
24	Tues	<i>pleasant.</i>	5 57	6 3		10 45	Morn.
25	Wed	Annunciation B. V. M.	5 56	6 4		11 25	0 34
26	Thur	☽ highest.	5 55	6 5	☽	11 59	1 21
27	Frid	<i>Cloudy and</i>	5 54	6 6		morn	2 21
28	Satur	War with Russia, '54.	5 53	6 7	☽	0 40	3 29
29	S.	Palm Sun. <i>some rain.</i>	5 52	6 8		1 35	4 54
30	Mon	Regulus sou. 9 h. 26 m.	5 51	6 9	☾	2 20	6 11
31	Tues	Calhoun died, 1850.	5 50	6 10		3 45	7 16



1st Month,

APRIL, 1863.

30 Days

## MOON'S PHASES.

D. H. M.  
 Full Moon 3 11 3 eve.  
 Last Quarter 10 9 14 eve.  
 New Moon 17 9 47 eve.  
 First Quarter 25 8 22 eve.

6 A miller has a head of water four feet above the sluice, how high must the water be raised above the opening so that half as much again water may be discharged from the sluice in the same time?

D.	D.	Various Phenomena.	Sun	Sun	MOON'S	Moon	High tide
of	o'		rise	sets	PLACE	rise & sets	Savannah
			H. M.	A. M.		H. M. H. M.	
1	Wed	Regulus sou. 10h. 18m.	5 41	3 11	E	4 35 8 4	
2	Thur	<i>Pleasant weather.</i>	5 41	3 12		5 2 8 42	
3	Frid	Good Friday <i>for</i>	5 41	3 13	W	rises. 9 16	
4	Satur	W. H. Harrison d'd '41.	5 41	3 14		7 6 9 48	
5	S	East. Sunday [ <i>planting</i> ]	5 41	3 15		7 58 10 19	
6	Mon	Easter Monday.	5 41	3 16		8 36 10 48	
7	Tues	☾ lowest.	5 41	3 17	W	9 21 11 26	
8	Wed	<i>Rain with Thunder.</i>	5 41	3 18		10 20 11 42	
9	Thur	Edward IV d'd 1482.	5 41	3 19		11 18 E. 27	
10	Frid	Bat. of Toulouse, 1814.	5 41	3 20	≈	morn. 1 8	
11	Satur	Pittsburg burned, 1845.	5 39	3 21		0 15 1 57	
12	S.	☿ 8 ☼ 24 times 6h. 22m.	5 38	3 22	≈	1 21 2 58	
13	Mon	Fort Sumter taken, '61.	5 37	3 23		2 26 4 18	
14	Tues	Embargo repealed 1814	5 36	3 24		3 35 5 32	
15	Wed	Spica sou. 11h. 36m.	5 35	3 25	W	4 50 6 43	
16	Thur	<i>Warm for this</i>	5 34	3 26		5 52 7 37	
17	Frid	Virginia seceded, 1861.	5 33	3 27	8	sets. 8 29	
18	Satur	<i>month.</i>	5 32	3 28		7 30 9 11	
19	S.	☿ enters ♈ [near ♄]	5 31	3 29	□	8 18 9 59	
20	Mon	☿ & ♀ at 2h 8m alt. very	5 30	3 30		9 0 10 47	
21	Tues	<i>Cloudy and</i>	5 29	3 31		9 42 11 32	
22	Wed	☾ highest. <i>windy.</i>	5 28	3 32	☼	10 31 Morn.	
23	Thur	St. George.	5 27	3 33		11 14 0 17	
24	Frid	Brazil discovered, 1500.	5 26	3 34	☼	11 58 1 5	
25	Satur	St. Mark. <i>Fair and</i>	5 25	3 35		morn. 2 1	
26	S.	Spica sou. 10h. 56m.	5 24	3 36	W	0 40 2 2	
27	Mon	Arcturus sou. 11h 44m.	5 23	3 37		1 31 4 18	
28	Tues	Wolfe killed, 1759.	5 22	3 38	≈	2 22 5 26	
29	Wed	<i>pleasant weather.</i>	5 21	3 39		3 11 6 32	
30	Thur	Washington inaug. '89.	5 20	3 40	W	4 0 7 25	



5th Month.]

MAY, 1863.

[1st Days]

## MOON PHASES.

Full Moon 3 9 43 mo.  
 Last Quarter 10 5 10 mo.  
 New Moon 17 11 15 mo.  
 First Quarter 23 11 23 mo.

7. What is the velocity of water issuing from a head of water 5 feet deep?

8. What is the difference between the length of a pendulum, which vibrates half seconds, and one which swings 3 seconds?

D of M	D of W	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises	High tide Savannah
			H.M.	H.M.		H. M. H.	M.
1	Frid	St. Philip & St. James.	5 20	4 40		4 52	8 6
2	Satur	<i>Warm and dry</i>	5 19	4 41	†	5 46	8 46
3	S.	Tennessee seceded '61.	5 18	4 42		rises.	9 20
4	Mon	Robert Grier died, '48.	5 17	4 43		8 0	9 53
5	Tues	Moon lowest. <i>Damp</i>	5 16	4 44	‡	8 50	10 25
6	Wed	Humboldt died '59.	5 15	4 45		9 41	10 59
7	Thur	<i>and much</i>	5 15	4 45	∞	10 36	11 33
8	Frid	<i>cloudy weather</i>	5 14	4 46		11 21	E. 9
9	Satur	Arcturus sou 10h 56m.	5 13	4 47	×	11 59	0 52
10	S.	Rogation Sunday.	5 12	4 48		morn.	1 42
11	Mon	<i>Rain with</i>	5 12	4 48		0 46	2 38
12	Tues	Antares sou 1h 0m.	5 11	4 49	∞	1 32	3 46
13	Wed	<i>thunder.</i>	5 10	4 50		2 25	4 59
14	Thur	Ascension day.	5 9	4 51	8	3 36	6 4
15	Frid	<i>Now we may</i>	5 9	4 51		4 41	7 6
16	Satur	<i>expect</i>	5 8	4 52		5 58	8 1
17	S.	Sun eclipsed invisible.	5 7	4 53	II	sets.	8 51
18	Mon	<i>a fine growing</i>	5 7	4 53		8 2	9 44
19	Tues	Moon highest.	5 6	4 54	∞	8 51	10 32
20	Wed	Sun enters II <i>season.</i>	5 5	4 55		9 40	11 16
21	Thur	<i>Will the end</i>	5 5	4 55	Ω	10 36	Morn.
22	Frid	<i>of this</i>	5 4	4 56		10 5	0 16
23	Satur	Irish rebellion com. '98.	5 4	4 56	∞	11 31	0 50
24	S.	Whit Sunday.	5 3	4 57		11 58	1 38
25	Mon	Whit Monday. <i>month.</i>	5 3	4 57	∞	morn.	2 30
26	Tues	John Calvin died, 1564.	5 2	4 58		0 52	3 28
27	Wed	<i>Fair</i>	5 2	4 58		1 47	4 35
28	Thur	<i>nd pleasant</i>	5 1	4 59	∞	2 35	5 37
29	Frid	Gen. rumram died, '80.	5 1	4 59		3 21	6 36
30	Satur	Alex. Pope died, 1744.	5 0	4 6		4 15	7 31
31	S.	Trinity Sunday.	5 0	4 0		5 20	8 14



JUNE, 1863.

[30 days]

## MOON'S PHASES.

	D.	H.	
Full Moon	1	6	1 eve.
Last Quarter	8	1	13 eve.
New Moon	16	1	54 mo.
First Quarter	24	0	19 mo.

9. I observed, that a stone was falling from a precipice, a string, with a bullet at the end, which measured 25 inches to the middle of the ball. had made five vibrations, what was the height of the precipice?

D.	D.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises	High tide
of M	of W		H.M.	H.M.		H. M.	H. M.
1	Mon	Moon eclipsed visible.	4 59	7 1	♊	rises.	8 54
2	Tues	Moon lowest. <i>Pleasant</i>	4 59	7 1		8 0	9 29
3	Wed	Transit of ♀ in 1769.	4 58	7 2	♋	8 50	10 7
4	Thur	<i>weather.</i>	4 58	7 2		9 42	10 43
5	Frid	Dr. Worcester died '21.	4 58	7 2		10 31	11 17
6	Satur	<i>Cloudy and some</i>	4 57	7 3	♌	11 22	11 56
7	S.	Antares sou 11h 13m.	4 57	7 3		11 50	E. 39
8	Mon	Gen. Jackson died '45.	4 57	7 3	♍	Morn.	1 28
9	Tues	S. L. Southard born '87.	4 57	7 3		0 43	2 19
10	Wed	Victory at Bethel, 1861.	4 56	7 4	♎	1 37	3 20
11	Thur	St. Barnabas. <i>rain.</i>	4 56	7 4		2 25	4 30
12	Frid	<i>Warm</i>	4 56	7 4		3 25	5 35
13	Satur	<i>and unpleasant.</i>	4 56	7 4	♏	4 35	6 43
14	S.	Moon highest.	4 56	7 4		5 40	7 45
15	Mon	<i>Rain with thunder.</i>	4 56	7 4	♐	6 48	8 40
16	Tues	Pres. Polk died, 1849.	4 55	7 5		sets.	9 32
17	Wed	Bat. Bunker Hill, 1775.	4 55	7 5	♑	9 51	10 29
18	Thur	Bat. Waterloo, 1815.	4 55	7 5		9 11	4
19	Frid	<i>More pleasant</i>	4 55	7 5	♒	19 50	11 4
20	Satur	Q. Vict. crowned, '37.	4 55	7 5		0 20	Morn.
21	S.	Sun ent. ☊. Longest day.	4 55	7 5		10 21	0 2
22	Mon	Antares sou 10h 14m.	4 55	7 5	♓	11 10	1 6
23	Tues	Akenside died, 1772.	1 55	7 5		11 56	1 54
24	Wed	St. John Baptist.	1 55	7 5	♈	Morn.	2 40
25	Thur	Bish. Gadsden died, '52.	4 55	7 5		0 43	3 33
26	Frid	Bat. Fort Moul. 1776.	1 55	7 5	♉	1 31	4 39
27	Satur	Monmouth Bat. 1778.	1 56	7 4		2 33	5 42
28	S.	<i>Warm and</i>	1 56	7 4		3 41	6 44
29	Mon	♄ lowest. St. Peter.	1 56	7 4	♊	5 8	7 40
30	Tues	<i>dry weather.</i>	1 56	7 4		6 0	8 25



## MOON'S PHASES.

Full Moon	1 1 6 mo.
Last Quarter	7 10 17 eve.
New Moon	15 5 3 eve.
First Quarter	23 13 58 morn.
Full Moon	30 5 38 morn.

10. There is a sluice, one end of which is 2 feet lower than the other. what is the velocity of the stream per second?

11. If a ball fall through a space of 484 feet in 5 1-2 seconds, with what velocity will it strike?

D.	D.	Various Phenomena.	Sun rises	Sun sets	Moon phase	High tide Savannah
M.	W.		M.	M.	M.	M.
1	Wed	<i>Sultry weather</i>	4 56 7	4	rises.	9 7
2	Thur	Vis. of B. V. Mary.	4 56 7	4	8 31	9 46
3	Frid	Fort Erie taken, 1814.	4 57 7	3	9 21	10 26
4	Satur	U. S. Dec. Independ.	4 57 7	3	10 21	11 3
5	S.	Bat. Chest Mount, '61.	4 58 7	2	10 41	11 42
6	Mon	<i>Rain with loud</i>	4 58 7	2	11 6 E.	24
7	Tues	<i>thunder and</i>	4 58 7	2	morn.	1 8
8	Wed	Antares sou 9h 12m.	4 58 7	2	0 32	1 57
9	Thur	Pres. Taylor died 1850.	4 59 7	1 8	1 25	2 54
10	Frid	Columbus born, 1447	4 59 7	1	2 17	4 0
11	Satur	L. Q. Adams born, 1767	4 59 7	1	3 21	5 15
12	S.	Hull invad. Canada, '12.	5 0 7	0	4 0	6 30
13	Mon	<i>violent lightning.</i>	5 0 7	0	4 38	7 37
14	Tues	Moon highest.	5 16 59	0	5 0	8 33
15	Wed	Antares sou 5h 44m.	5 16 59		sets.	9 23
16	Thur	Hegira begins 692.	5 26 5*	0	7 38	10 8
17	Frid	Elbridge Gerry b. 1729.	5 26 55		8 26	10 48
18	Satur	Bat. Bull Run, 1861.	5 36 57	0	9 15	11 24
19	S.	Congress met at Rich d 5	5 36 57		10 0	11 59
20	Mon	Vega sou 10h 34m. ['61]	5 46 56	0	10 48	Morn.
21	Tues	Bat. Manassas 1861.	5 56 55		11 21	0 36
22	Wed	Sun enters ♋.	5 56 55	0	11 59	1 13
23	Thur	<i>Warm</i>	5 66 54		morn.	1 53
24	Frid	<i>and</i>	5 66 54	0	0 48	2 34
25	Satur	St. James.	5 76 53		1 28	3 35
26	S.	St. Anne <i>weather</i>	5 86 52		2 40	4 49
27	Mon	Moon lowest.	5 86 52	0	3 44	6 2
28	Tues	Dog days begin.	5 96 51		4 56	7 8
29	Wed	<i>Rainy and</i>	5 106 50	0	6 0	8 1
30	Thur	<i>stormy.</i>	5 116 49		rises.	8 45
31	Frid	Fomalhaut sou 2h 13m.	5 116 49	0	8 21	9 26



MOON'S PHASES.

	P.	H.	M.
Last Quarter	6	9	23 mo.
New Moon	14	8	27 mo.
First Quarter	21	8	12 eve.
Full Moon	28	3	19 eve.

12. If a ball strike the ground with a velocity of 56 feet per second, from what height did it fall?

13. In what time will a musket ball, dropped from the top of a steeple 484 feet high, come to the ground?

D. of M.	D. of W.	Various Phenomena.	Sun. rise.	Sun. sets.	MOON PLACE.	Moon rise & sets.	High Tide Savannah.
			H. M.	H. M.		H. M.	H. M.
1	Satur	Lammac Day.	5	12 6 48		9 10 10	5
2	S.	<i>Sweltry weather.</i>	5	12 5 47		9 57 10	42
3	Mon	Burr's trial com 1807.	5	13 6 47	☾	10 47 11	23.
4	Tues	Brownstown Bat. 1812.	5	14 3 40		11 21	Even. 5
5	Wed	Fomalhaut sou 1h 53m.	5	15 6 45	8	11 54	0 47
6	Thur	Bat. Hang. Röck, 1780.	5	16 6 44		Morn.	1 36
7	Frid	<i>Rain and thunder.</i>	5	17 6 43		0 41	2 25
8	Satur	<i>Cloudy and</i>	5	17 6 43	☐	1 36	3 36
9	S.	Bat. Oak Hill, 1861.	5	18 6 42		2 25	4 58
10	Mon	Moon highest. <i>windy</i>	5	19 6 41	☿	3 35	6 20
11	Tues	<i>weather,</i>	5	20 6 40		4 45	7 30
12	Wed	George IV born, 1762.	5	21 6 39	♊	5 55	8 23
13	Thur	<i>Now we may</i>	5	22 6 38		6 10	9 10
14	Frid	Altair sou 10h 9m.	5	22 6 38	☿	Sets.	9 50
15	Satur	Bonaparte born, 1769.	5	23 6 37		8 11 10	23
16	S.	Bat. at Camden, 1780.	5	24 6 36	♈	8 50 10	59
17	Mon	<i>expects a heavy</i>	5	25 6 35		9 31 11	22
18	Tues	Altair sou 9h 53m.	5	26 6 34	♉	10 22	Morn.
19	Wed	<i>storm of wind and</i>	5	27 6 33		11 10	0 16
20	Thur	Bat. in Mexico, 1847.	5	28 6 32	♊	11 50	0 36
21	Frid	Wm. IV born, 1765.	5	29 6 31		Morn.	1 12
22	Satur	☼ enters ♉. <i>rain.</i>	5	30 6 30		0 40	1 51
23	S.	☼ lowest. [from N. E.	5	31 6 29	♈	1 31	2 44
24	Mon	☼ brightest in the eve.	5	32 6 28	♈	2 21	3 57
25	Tues	Bp. Bowen died 1839.	5	33 6 27	♉	3 25	5 17
26	Wed	Dr. Adam Clark d. '32.	5	34 6 26		4 15	6 32
27	Thur	<i>Fair and mild.</i>	5	35 6 25		5 16	7 31
28	Frid	Hatteras taken 1861.	5	36 6 24	♊	Rises.	8 15
29	Satur	St. John Bap. beheaded	5	37 6 23		7 31	9 2
30	S.	Paley born, 1743.	5	38 6 22	☾	8 15	0 11
31	Mon	Bunyan died, 1688.	5	39 6 21		9 0	10 20



## MOON'S PHASES.

Last Quarter	4 11 13 eve.
New Moon	18 11 29 eve.
First Quarter	29 4 41 mo.
Full Moon	27 6 32 mo.

14. If the attraction of the moon raise a tide on the earth five feet high, what will be the height of a tide, raised by the earth on the surface of the moon, under similar circumstances.

D. D.	C. of	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE	Moon rises	H. Tide
M. W.			H.M.	H.M.		H. M. H. M.	
1 Tues		<i>Fair and warm.</i>	5 39	6 21		9 40	11 0
2 Wed		London burn'd, 1666.	5 40	6 20	8	10 20	11 44
3 Thur		<i>Cloudy, and some</i>	5 41	6 19		11 10	ev. 27
4 Frid		Altair S. 8 h'rs 46 min.	5 42	6 18	II	morn.	1 15
5 Satur		Dog-days end. <i>rain</i>	5 43	6 17		0 2	2 9
6 S.		Lafayette, born, 1757.	5 44	6 16		0 58	3 20
7 Mon		highest. <i>with thun-</i>	5 45	6 15	III	1 43	4 46
8 Tues		Bat. Bataw, 1781. <i>der.</i>	5 46	6 14		2 56	6 16
9 Wed		Fomalhaut sou. 11h 32m	5 47	6 13	IV	3 2	7 18
10 Thur		Bat. Lake Erie, 1813.	5 48	6 12		4 15	8 8
11 Frid		<i>Cloudy and</i>	5 49	6 11	V	5 25	8 49
12 Satur		<i>damp.</i>	5 50	6 10		sets.	9 25
13 S.		Donati's Comet, 1858.	5 51	6 9	VI	7 0	9 59
14 Mon		Moscow burned, 1812.	5 52	6 8		7 54	10 30
15 Tues		Surren. of N. Y., 1776.	5 53	6 7	VII	8 43	11 1
16 Wed		Fomalhaut sou. 11h 4m	5 54	6 6		9 31	11 32
17 Thur		<i>Changeable and</i>	5 55	6 5	VIII	10 20	morn
18 Frid		<i>unsettled weather.</i>	5 56	6 4		11 5	0 16
19 Satur		Moon lowest.	5 57	6 3	IX	11 56	0 36
20 S.		<i>Stormy and boisterous.</i>	5 58	6 2		morn.	1 16
21 Mon		St. Matthew.	5 59	6 1	X	0 43	2 7
22 Tues		<i>Weather may now</i>	6 0	6 0		1 32	3 16
23 Wed		Sun enters ♋. Days and	6 1	5 59		2 37	4 26
24 Thur		[nights equal.]	6 2	5 58	XI	3 46	5 54
25 Frid		Fomalhaut sou. 10h 29m	6 3	5 57		4 28	7 1
26 Satur		<i>be expected fair.</i>	6 4	5 56	XII	5 29	7 49
27 S.		Artic lost, 1854.	6 5	5 55		rises.	8 33
28 Mon		Detroit retaken, 1813.	6 6	5 54		7 21	9 12
29 Tues		♀ ♂ Sun Inferior.	6 7	5 53	8	8 10	9 55
30 Wed		♂ ♂ Sun. St. Jerome.	6 8	5 52		9 0	10 40



10. [h.]

OCTOBER, 1863.

Days

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	4	3	27 eve.
New Moon	12	1	27 eve.
First Quarter	19	1	34 eve.
Full Moon	26	0	31 eve.

Suppose a vessel 3 feet wide, 5 feet long and 4 feet high, what is the perpendicular pressure on the bottom, it being filled with water to the brim?

D.	D.	Various Phenomena.	Sun rises	Sun sets.	MOON'S PLACE.	Moon rises	High tide Savannah
of M.	of W.		H. M.	H. M.		H. N. H. M.	
1	Thur	4 8 ☿ Cloudy and	6	45	51	11	9 56 11 24
2	Frid	Major Andre exe. 1780.	6	10	50	10	43 E. 11
3	Satur	damp weather.	6	11	49	11	36 0 58
4	S.	☿ highest.	6	12	48	☾	morn. 1 55
5	Mon	Brainard died, 1747.	6	13	47	0	21 3 4
6	Tues	Fomalhaut sou 9h 46m.	6	14	46	☿	1 15 4 27
7	Wed	Bat King's Mount. '80.	6	15	45	2	14 5 49
8	Thur	Cool nights and	6	15	45	☿	3 12 6 55
9	Frid	Battle Schleitz, 1866.	6	16	44	4	8 7 44
10	Satur	mornings.	6	17	43	☾	4 59 8 25
11	S.	Bahamas discov'd 1492.	6	18	42	5	48 8 59
12	Mon	Fair and	6	19	41	☿	sets. 9 32
13	Tues	mild weather.	6	20	40	6	21 10 3
14	Wed	Fomalhaut sou 9h 14m.	6	21	39	☿	7 22 10 34
15	Thur	Bank Panic, 1857.	6	22	38	8	28 11 6
16	Frid	Raining and	6	23	37	☿	9 36 11 37
17	Satur	Burgoyne surrend 1777.	6	24	36	10	42 Morn.
18	S.	St. Luke. stormy.	6	25	35	11	50 0 16
19	Mon	Cornwallis sur 1781.	6	26	34	☾	morn. 0 50
20	Tues	Windy and cool.	6	27	33	0	42 1 35
21	Wed	Fomalhaut sou 8h 47m.	6	28	32	☿	1 36 2 34
22	Thur	Now we may expect	6	29	31	2	39 3 53
23	Frid	☿ enters ☿	6	30	30	3	21 5 9
24	Satur	frost.	6	31	29	☿	4 29 6 21
25	S.	7 * sou 1h 23m.	6	32	28	5	41 7 16
26	Mon	Changeable and	6	33	27	8	rises. 8 4
27	Tues	Fomalhaut sou 8h 23m.	6	34	26	7	1 8 49
28	Wed	St. Sim. and St. Jude.	6	35	25	7	55 9 35
29	Thur	unsettled.	6	36	24	☿	8 42 10 21
30	Frid	☿ highest.	6	37	23	9	31 11 7
31	Satur	☿ ☼ weather.	6	38	22	☾	10 14 11 54



11th Month.]

NOVEMBER, 1863.

[30 Days.

## MOON'S PHASES.

	D.	H.	M.	
Last Quarter	3	9	23	mo.
New Moon	11	2	36	mo.
First Quarter	17	11	29	eve.
Full Moon	25	3	29	mo.

16. With what velocity will an iron ball begin to descend, if raised 3,000 miles above the earth's surface?

17. How high must a ball be raised, to lose half its weight?

D.	D.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises	H. Tide
M	W		H. M.	H. M.		H. M.	SAVAN. NAH.
1	S.	All Saint's day.	6 39	5 21		11 5	eve. 45
2	Mon	All Souls' day.	6 40	5 20	Ω	11 57	1 38
3	Tues	<i>Fair and Cool.</i>	6 40	5 20		morn.	2 38
4	Wed	☿ brightest in the morn.	6 41	5 19		0 43	3 52
5	Thur	Gunpowder plot, 1605.	6 42	5 18	☿	1 37	5 0
6	Frid	Leonard. <i>Cloudy</i>	6 43	5 17		2 35	6 15
7	Satur	Bat. Belmont, 1861	6 44	5 16	≈	3 34	7 11
8	S.	Transit of ☿, 1849.	6 45	5 15		4 31	7 54
9	Mon	<i>and Damp.</i>	6 46	5 14	☿	5 21	8 32
10	Tues	Milton died, 1674.	6 46	5 14		6 2	9 7
11	Wed	☿ Eclipsed, invisible.	6 47	5 13	☿	sets.	9 42
12	Thur	<i>Frosty and</i>	6 48	5 12		6 31	10 11
13	Frid	Moon lowest. <i>Fair.</i>	6 49	5 11	☿	7 39	10 47
14	Satur	Chas. Carroll d., 1832.	6 49	5 11		8 36	11 18
15	S.	Witherspoon d., 1791.	6 50	5 10	≈	9 51	11 52
16	Mon	Tea dest'd Boston, 1773	6 51	5 9		10 59	morn.
17	Tues	7 Stars sou. 11h 49m.	6 52	5 8		morn.	0 31
18	Wed	<i>Windy, and a Cold</i>	6 52	5 8	☿	0 8	1 15
19	Thur	7 Stars sou. 11h 41m.	6 53	5 7		1 10	2 7
20	Frid	<i>Rain may be expected.</i>	6 54	5 6	☿	2 21	3 9
21	Satur	Sun enters ♋	6 54	5 6		3 36	4 25
22	S.	<i>Fair, and</i>	6 55	5 5		4 48	5 35
23	Mon	Bomb. Ft. Pickens, '61.	6 56	5 4	☿	5 35	6 42
24	Tues	<i>Cold Winds.</i>	6 56	5 4		6 25	7 38
25	Wed	Moon Eclipsed visible.	6 57	5 3	☿	rises.	8 27
26	Thur	Q. Isabella died, 1504.	6 58	5 2		6 10	9 19
27	Frid	Moon highest.	6 58	5 2	☿	7 0	10 9
28	Satur	<i>Cloudy Weather.</i>	6 59	5 1		7 56	10 57
29	S	Advent Sunday.	6 59	5 1		8 43	11 42
30	Mon	St. Andrew's Day.	7 0	5 0	Ω	9 39	eve. 29



Month.]

DECEMBER, 1863.

[31 Days.

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	3	3	53 mo.
New Moon	10	2	43 eve.
First Quarter	17	10	39 mo.
Full Moon	24	9	0 eve.

13. If the velocity of a stream of water spouting through the bulk head of a mill be 16 feet per second, what head of water is there?

D.	D.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE	Moon rises & sets	High tide Savannah
of M.	of W.		H. M.	H. M.		H. M.	H. M.
1	Tues	Days 10 hours long.	7	05	0	10 25	1 15
2	Wed	7 Stars souths 10h 59m	7	14	59	11 21	8
3	Thur	<i>Fair and Frosty.</i>	7	14	59	morn.	4
4	Frid	Sun fast. clock 9m 19s.	7	24	58	0 15	4 12
5	Satur	<i>Rainy and Cool.</i>	7	24	58	1 25	5 18
6	S.	Van Buren born, 1782.	7	24	58	2 35	6 24
7	Mon	<i>Windy and</i>	7	34	57	3 48	7 20
8	Tues	7 Stars souths 10h 26m.	7	34	57	4 59	8 3
9	Wed	<i>unpleasant Weather.</i>	7	34	57	5 58	8 43
10	Thur	Moon lowest.	7	34	57	sets.	9 21
11	Frid	Gt. Fire Charleston, '61.	7	44	56	5 56	9 56
12	Satur	<i>Cold enough</i>	7	44	56	6 40	10 31
13	S.	Bat. Valley Mount., 1861.	7	44	56	7 28	11 5
14	Mon	Washington died, 1799.	7	44	56	8 45	11 40
15	Tues	<i>for Ice.</i>	7	44	56	9 40	morn.
16	Wed	Gt. Fire N. York, 1835.	7	54	55	10 53	0 17
17	Thur	<i>Rainy and unpleasant</i>	7	54	55	morn.	1 0
18	Frid	Sun fast. clock 2m 51s.	7	54	55	0 2	1 50
19	Satur	<i>Weather.</i>	7	54	55	1 12	2 59
20	S.	S. Carolina seced. '60.	7	54	55	2 21	4 25
21	Mon	Sun ent. v9 Shortest day.	7	54	55	3 42	5 35
22	Tues	Land. of Pilgrims. 1620.	7	54	55	4 56	6 42
23	Wed	Sir I. Newton born, 1642.	7	54	55	6 2	7 38
24	Thur	Sun & clock agree.	7	54	55	rises.	8 27
25	Frid	CHRISTMAS DAY. <i>Clear</i>	7	54	55	5 58	9 10
26	Satur	highest. St. Stephen.	7	54	55	6 48	10 9
27	S.	St. John Evang. <i>and</i>	7	44	56	7 37	10 57
28	Mon	Innocents. <i>cold weather.</i>	7	44	56	8 26	11 42
29	Tues	The Java taken, 1812.	7	44	56	9 13	eve. 26
30	Wed	7 Stars souths 9h 0m.	7	44	56	10 14	1 19
31	Thur	<i>for this Climate.</i>	7	44	56	11 12	2 10



## GOVERNMENT OF THE CONFEDERATE STATES.

EXECUTIVE CABINET.—Jefferson Davis, of Miss., President; Alexander H. Stephens, of Ga., Vice-President; J. P. Benjamin, of La., Secretary of State; G. G. Memminger, of S. C., Sec. Treasury; Jas. A. Seddon, of Va., Sec. War; R. S. Mallory, Sec. Navy; John H. Reagan, Postmaster-General; A. T. Watts, Attorney General.

## GOVERNMENT OF GEORGIA.

Capitol—MILLEDGEVILLE.

Area—59,000 Square Miles;      Total Population—1,082,797  
Slaves—267,461.

EXECUTIVE AND CABINET.—Joseph E. Brown, Governor; H. H. Waters and J. L. Campbell, Secretaries Ex. Dept.; N. C. Barnett, Sec. State; Peterson Thweatt, Comp. Genl; John Jones, Treasurer; H. C. Wayne, Adjnt and Insp'r Genl.

## REPRESENTATION IN CONFEDERATE CONGRESS.

R. H. Hill,      SENATORS.      H. W. Johnson.  
REPRESENTATIVES.

1st District, Julian Hartridge,	6th District, W. W. Clark,
2d do C. J. Munnerlyn,	7th do R. P. Tripp,
3d do Hines Holt,	8th do L. J. Gartrell,
4th do A. H. Kenau,	9th do Hardy Strickland,
5th do D. W. Lewis,	10th do A. R. Wright.

## GOVERNMENT OF ALABAMA,

Capitol—MONTGOMERY.

Area—59,722 Square Miles;      Total Population—935,917;  
Slaves—435,473.

John Gill Shorter, Governor; P. H. Britton, Secretary of State; W. J. Green, Comptroller; D. B. Graham, Treasurer.  
Clement C. Clay,      SENATORS.      William L. Yancy.

## GOVERNMENT OF MISSISSIPPI,

Capitol—JACKSON.

Area—47,156 Square Miles;      Total Population—887,158;  
Slaves—479,677.

John J. Pettus, Governor; Charles A. Brongher, Secretary of State; A. J. Gillespie, Auditor of Public Accounts; M. D. Haynes, State Treasurer; T. J. Wharton, Attorney General.  
Albert Brown,      SENATORS.      James Phelan.

## GOVERNMENT OF LOUISIANA,

Capitol—BATON ROUGE.

Area—41,436 Square Miles;      Total Population—666,431  
Slaves—312,126.

Thomas O. Moore, Governor; H. M. Hyams, Lieut. Governor; P. D. Harely, Secretary of State; Thomas J. Semmes, Attorney General.



# TIMES AND PLACES OF HOLDING of the Superior Courts in Georgia FOR 1868.

COUNTIES	SUPERIOR COURTS.	INFERIOR COURTS.	Co. TOWNS
Appling.....	1st Monday Mar. and Sept.	1st Monday June and Dec.	Homerville
Baker.....	2d do May and Nov.	Thurs aft 1st Mon Jan July	Newton
Baldwin.....	4th do Feb. and Aug.	3d Monday May and Nov.	Milledgeville
Banks.....	Thurs aft 1st Mon Apl & Oct.	1st do Feb and Aug.	
Berrien.....	Monday after Super. Court in Irwin.	2d do Jan and July.	Nashville
Bibb.....	2d Monday May and Nov.	last do Feb, 4th Mo. Aug.	
Brooks.....	2d do Dec and June.	3d do Feb and Aug.	Macon
Bryan.....	Day after 3d Mon Apl and Mon aft Liberty Court Nov.	4th do Jan and June.	Eden
Bulloch.....	Friday after 3d Mon Mar & Friday after 4th Mon Oct.	1st do Feb and July.	Statesboro
Burke.....	3d Monday May and Nov.	1st do Jan and July.	Waynesboro'
Butts.....	2d do Mar and Sept.	2d do Jan and July.	Jackson
Cahoun.....	4th do May and Nov.	3d do May and Nov.	Morgan
Camden.....	3d do April and Oct.	1st do Jan and June.	Jeffersonston
Campbell.....	3d do Feb and Aug.	3d do June and Dec.	Campbellton
Carroll.....	1st do April and Oct.	4th do June and Dec.	Carrollton
Cass.....	3d do Mar and Sept.	4th do May and Nov.	Quitovaile
Catoosa.....	2d do May and Nov.	4th do Jan and July.	Ringgold
Chatham.....	2d do Jan and May.	3d do Feb and July.	Savannah
Chattahoochee.....	3d do May and Nov.	3d do Feb and Aug.	Cusseta
Chattanooga.....	1st do Mar and Sept.	4th do May and Nov.	Summerville
Cherokee.....	1st do do do	2d do June and Dec.	Canton
Choriton.....	1d do April and Oct.	1st do Feb and Sept.	Traders' Hill
Clarke.....	1st do Feb, 2d Mo. Aug.	4th do April and Oct.	Watkinsville
Clay.....	4th do Mar and Sept.	4th do Jan and July.	Fort Gaines
Clayton.....	1st do May and Nov.	1st do Feb and July.	Jonesboro'
Clinch.....	4th do Mar and Sept.	3d do Jan and July.	Magnolia
Cobb.....	3d do do do	3d do June and Dec.	Marietta
Coffee.....	2d do do do	1st do May and Nov.	Douglas
Columbia.....	1st do do do	1st do Feb and July.	Appling
Colquitt.....	last do in May, and Monday after 4th Mon Nov.	1st do Jan and July.	Moultrie
Coweta.....	1st do Mar and Sept.	1st do June and Dec.	Venman
Crawford.....	1st do do do	2d do Jan and July.	Knoxville
Dade.....	4th do May and Nov.	1st do Mar and Sept.	Prentiss
Dawson.....	2d do Feb and Aug.	1st do June and Dec.	Dawsonville
Decatur.....	4th do April and Oct.	2d do Jan and July.	Bainbridge
DeKalb.....	4th do do do	2d do Jan and July.	Decatur
Dooley.....	1st do do do	3d do June and Dec.	Vienna
Dougherty.....	1st do June and Dec.	1st do Mar and Sept.	Altany
Early.....	1st do April and Oct.	3d do June and Dec.	Bakely
Echols.....	Mon aft 4th Mon Mar Sept.	Mon aft inf Court in Clinch	
Effingham.....	Mon aft 4th Mon Mar. and 2d Mon aft 4th Mon Oct.	2d Monday Feb and July.	Springfield
Elbert.....	2d Monday Mar and Sept.	3d do Jan and July.	Elberton
Emanuel.....	1st do April and Oct.	1st do do do	Paris
Fannin.....	2d do May and Oct.	2d do do do	Morganton
Fayette.....	2d do Mar and Sept.	2d do Jan and June.	Fayetteville
Floyd.....	3d do Jan & 1st Mo July	2d do April and Oct.	Rome
Forsyth.....	3d do Feb and Aug.	3d do do do	Cumming
Franklin.....	1st do April and Oct.	4th do Jan and July.	Carnesville
Fulton.....	1st do do do	2d do June and Dec.	Atlanta
Gilmer.....	1st do May and Oct.	2d do Jan. 1st Mon Ju.	Elizy
Glascock.....	2d do Feb and Aug.	4th do May and Nov.	Gibson
Glynn.....	4th do April and Oct.	2d do Jan and June.	Brunswick
Greene.....	2d do Mar and Sept.	2d do June and Dec.	Greenstoro'
Gordon.....	1st do April and Oct.	4th do Jan and July.	Caloun
Gwinnett.....	1st do Mar & 2d Sept.	1st do June and Dec.	Lawrenceville
Habersham.....	Thurs aft 4th Mon Mar Sept.	2d do Jan and July.	Clarkeville
Hall.....	3d Monday Mar and Sept.	4th do do do	Gainesville
Hancock.....	2d do April and Oct.	1st do Feb and Aug.	Sparta
Haralson.....	3d do do do	2d do Jan and July.	Talapoosa



# Superior and Inferior Courts of Georgia

## Continued.

COUNTIES.	SUPERIOR COURTS	INFERIOR COURTS	TOWNS.
Harris.....	2d Monday April and Oct	2d Monday Jan and July	Hamilton
Hart.....	3d do March and Sept	3d do June and Dec	Hartwell
Heard.....	3d do April and Oct	3d do Jan and July	Franklin
Henry.....	3d do April and Sept	4th do Feb and Aug	M. Donough
Houston.....	4th do do do	4th do Jan and July	Perry
Irwin.....	Thurs aft Sep Court Telfair	4th do Jan 1st Mo July	Irwinville
Jackson.....	4th Monday Feb and Aug	3d do Jan and July	Jefferson
Jasper.....	4th do April and Oct	4th do do do	Monticello
Jefferson.....	2d do May and Nov	2d do do do	Louisville
Johnson.....	4th do Mar and Sept	2d do April and Oct	
Jones.....	3d do April and Oct	4th do Jan and July	Clinton
Laurens.....	2d do do do	1st do Jan and Dec	Dubin
Lee.....	4th do March and Sept	4th do Jan and July	Starkeville
Liberty.....	2d Mo Apr Mo af 4 Mo Nov	3d do Jan and July	Hillsville
Lincoln.....	4th Monday April and Oct	1st do Feb and July	Lincolnton
Lewis.....	1st do June and Dec	1st do Feb and Aug	Troupville
Lumpkin.....	1st do Feb and Aug	2d do June and Dec	Dahlonega
Macon.....	2d do March and Sept	1st do Feb and July	Oglethorpe
Madison.....	1st do do do	2d do Jan and July	Danielsville
Marion.....	1st do do do	2d do May and Nov	Buena Vista
McIntosh.....	Tues aft 2d Mon April and Thursday aft 4th Mon Nov	3d do Jan and June	Darien
Meriwether.....	2d Monday Feb and Aug	4th do April and Oct	Greenville
Miller.....	2d do April and Oct	4th do March and Sept	Colquitt
Milton.....	4th do March and Sept	4th do June and Dec	Alharetta
Mitchell.....	2d do May and Nov	4th do Feb and Aug	Camilla
Monroe.....	4th do Feb and Aug	3d do June and Dec	Forysth
Montgomery.....	Thurs aft 2d Mon Mar and Thursday aft 3d Mon Oct	1st do Feb and Aug	Mt Vernon
Morgan.....	1st Monday Mar and Sept	1st do June and Dec	Madison
Murray.....	3d do April and Oct	3d do Jan and July	Spring Place
Muscogee.....	4th do May and Sept	2d do Mar and Sept	Columbus
Newton.....	3d do March and Sept	4th do June and Dec	Covington
Oglethorpe.....	2d do April and Oct	4th do Jan and June	Lexington
Paulding.....	4th do Feb and Aug	2d do June and Dec	Dallas
Pike.....	2d do March and Sept	3d do Jan and July	Jasper
Pierce.....	Th before 1st Men Mar Sept	2d do June and Dec	Blackshear
Pike.....	1st Mo Apr & Th af 1 Mo Oct	1st do do do	Zebulon
Polk.....	4th Monday April and Oct	4th do do do	Cedar Town
Polaski.....	3d do do do	4th do Jan 1st Mon July	Hawkinsville
Putnam.....	4th do Mar and Sept	3d do June and Dec	Fatonton
Quitman.....	3d do May and Nov	2d do Feb and Aug	Georgetown
Rabun.....	4th do Mar and Sept	1st do Jan and July	Clayton
Randolph.....	1st Monday May and Nov	1st do Feb and Aug	Cuthbert
Richmond.....	2d do April and Oct	1st do June and Dec	Augusta
Schley.....	4th do April and Oct	4th do Jan and Aug	Ellaville
Seriven.....	1st do May and Nov	2d do Jan and July	Sylvania
Spaulding.....	2d do May and Nov	3d do Feb and Aug	Griffin
Stewart.....	2d do April and Oct	1st do Feb and June	Lumpkin
Sumter.....	2d do do do	3d do Jan and July	Americus
Talbot.....	2d do March and Sept	3d do June and Dec	Talbotton
Tallapoosa.....	4th do Feb and Aug	1st do do do	Crawfordville
Tattnall.....	3d do Mar & 4th Mo Oct	2d do Feb and Aug	Reedsville
Taylor.....	1st do April and Oct	2d do do do	Butler
Terrell.....	4th do May and Nov	4th do do do	
Telfair.....	Frid after Courtain Wilcox	4th do Jan and July	Jacksonville
Thomas.....	1st Monday June and Dec	4th do Feb and Aug	Thomasville
Town.....	Thurs aft 2d Mon May & Oct	3d do June and Dec	Hiram
Troup.....	3d Monday May and Nov	1st do Feb and Aug	LaGrange
Twiggs.....	4th do March and Sept	4th do Jan and July	Marion
Union.....	3d do May and Oct	4th do June and Dec	Elkville
Upson.....	1st do May and Nov	1st do Feb and Aug	Thermastan
Walker.....	Mo before 1st Mo Mar Sept	1st do May and Dec	LaFayette
Walton.....	2 & 3 Mon Feb & 2 Mo Aug	3d do May and Nov	Monroe
Ware.....	3d Monday Mar and Sept	3d do June and Dec	Wareboro



Washington...	1st Monday April and Oct	2d Monday Feb and Aug	Warrenton
Wayne	2d do Mar and Sept	4th do Jan and July	Sandersville
Webster	Th after 3d Mon April Oct	4th do do	Waynesville
White	2d Monday March and Sept	2d do June and Dec	Preston
Wilcox	Fhu at 3d Mon Mar & Sept	4th do June and Dec	Met Yrnah
Wilkes	4th do April and Oct	2d do Jan and July	Abbeville
Wilkinson	4th do March and Sept	1st do May and Nov	Washington
Whitfield	1st do April and Oct	2d do Jan and July	Irwinton
Worth	4th do do	1st do June and Dec	Bellton
	3d do do	1st do June and Dec	Isabella

JUDGES AND SOLICITORS.

SUPREME COURT OF GEORGIA

**Officers.** [Elected by the Legislature, for the term of 6 years.] \* Salary

Joseph H. Lumpkin, of Athens, Judge.	\$2,500
Charles J. Jenkins, of Richmond, do	2,500
Thos. J. Lyon, of Fulton do	2,500

**First District.**—Composed of the Eastern, Middle and Brunswick Judicial Circuits, at Savannah, on the second Monday's in January and June in each year.

**Second District.**—Composed of the Macon, South-western, Chattahoochee and Palaula Judicial Circuits, at Macon—on 4th Monday in January and June in each year.

Third District.—Composed of the Flint Coweta, Blue Ridge, Cherokee and Tallapoosa Judicial Circuits, at Atlanta, on 4th Mon. in March and 2d Mon. in Aug. ea. yr.

**Fourth District.**—Composed of the Western and Northern Judicial Circuits, at Athens, Ga.,—on the 4th Monday in May and 4th Monday in November in each year.

Fifth District.—Composed of the Ocmulgee and Southern Judicial Circuits. Term at Milledgeville, on the second Mondays in May and November in each year.



## DOMESTIC RECIPES

**PORK, BEEF OR MUTTON, HOW TO PRESERVE.**—Take water, four gallons, coarse sugar, one pound, saltpetre, two ounces, common salt, eight pounds; put the whole into a vessel and let it boil, carefully taking off the scum; and when no more scum will rise, take it up from the vessel you intend to keep it in, and when cold, put in your meat. This is all that is necessary, if you head up your cask; but if kept as a house pickle, it must be opened, and when fresh, is put in weekly, or from time to time; then in the pickle, the pickle should be reboiled every six weeks.

**CURING HAMS AND BACON.**—Use equal quantities of common Soda and Saltpetre—one ounce and a half of each to the fourteen pounds of Ham or Bacon, using the usual quantity of salt. The Soda prevents that hardness in the lean of the Bacon which is so often found, and keeps it quite mellow all through, besides being a preventive of rust.

**SUBSTITUTE FOR SODA.** A lady send the following, which we publish for the information of house-keepers:

To the ashes of corn cobs add a little boiling water. After allowing it to stand for a few minutes, pour off the lye which can be used at once with an acid [sour milk, or vinegar]. It makes the bread as light almost as Soda.

**TO SAVE PORK.**—Mr. John H. Taylor, gives through the Columbus Enquirer the following recipe for saving pork in an economical manner. He says several gentlemen have successfully practiced it the past year in Harris county.

To 5 gallons of water add 7 pounds of salt, 1 pint of syrup, and 1 teaspoonful of powdered saltpetre. After the pork is cooled in the usual way, pack in barrels and cover with the above mixture—let it remain four or five weeks, and hang and smoke in the usual manner.

Thus twenty pounds of salt are made to save one thousand pounds of pork.

**CONFEDERATE DYE—TO MAKE A BEAUTIFUL BLUE.**—Take elder berries, mash them and press out the juice. To two gallons of juice add about one ounce of copperas and two ounces of alum. Dip the thread in this thoroughly, and air, and the dye is set.

**SAUSAGE MEAT.**—After several years experience, I have found the following recipe to be the best for preparing sausage meat I have ever seen:

To 50 lbs. of chopped meat, add 1½ lbs of salt, 4 oz. of good black pepper, 14 table spoonfulls of sage.

**HOW TO MAKE TALLOW CANDLES HARD.**—Take the leaf of the Prickly Pear, say four or five cut up and boil with one pound of tallow, and your candles will surprise you for bardness.

**TO PRESERVE BUTTER.**—Take two quarts of best common salt, one ounce of sugar, one ounce saltpetre, all finely pulverized and dry: then thoroughly mix the whole together, and take one ounce of the mixture for each pound of butter, work well into the mass and close it up for use.

It should be remembered that butter thus prepared requires to stand a month before it is ready for use. If it is sooner opened the salt is not sufficiently blended with it, and sometimes the coolness of the saltpetre will be perceived, which totally disappears afterwards.

Butter being prepared for immediate use, had better be put up without the saltpetre, but the sugar in the proportions above given, may be used with great advantage, as the sugar gives butter an extra good flavor, and has a tendency to keep it sweet, and prevent its becoming rancid.



**PRACTICAL**—As most of the ingredients for raising bread are becoming scarce, think a good recipe is worth saying. Take four bushels of potatoes, pare and cut them into small pieces, and wash them in much water as you can get. Put them in the same water, then add flour to the water. Remember the flour must be put in while the water is running, let it then cool off until about lukewarm, and then add a little sour dough, say a teaspoonful to start with. Of course, if a housekeeper has once made this yeast, she can always keep a little of it to add to the new. If kept in a warm place, it will be fit for use about six hours. Add plenty of this to your flour, and you will have the lightest and best tasted bread that you would wish for.

**PRESERVING BUTTER.**—A patent has been secured by W. Clark, of London, for the following method of preserving butter. The butter is first well beaten in the usual manner after churning, then placed between linen cloths, and submitted to severe pressure for removing whey and water. It is now completely enveloped or covered with clean white paper, which is coated on both sides with a preparation of the white of eggs, in which fifteen grains of salt is used for each egg. This prepared paper is first dried, then heated before a fire, or with a hot iron, just prior to wrapping it round the butter. It is stated that butter may be kept perfectly sweet without any salt for two months, when thus treated, if placed in a cool, dry cellar. The submitting of butter to pressure as described, is a good plan, and one which we recommend to all our farmers. They can easily practice it with a small cheese press.

**STARCH OF HOME MANUFACTURE.**—Take a peck of unground wheat of the best quality, pick and soak it carefully. Next put into a tub; pour on sufficient clear, soft water to cover it, and then set it in the sun. Be sure to change the water every day, keeping it in the sun as much as possible, or an equally warm place in the house, should the weather prove unfavorable. When all the grains of wheat have become quite soft, rub it well in your hands, and separate it from the husks, which must be thrown into another tub. Let the soft wheat settle in a mass, and then pour off the water and put on fresh; stir it well, and let it settle again. Repeat this every day, till the last water comes off clear and colorless. Then pour the water finally off. Take the starch out of the tub, collect it in a thin bag and hang it for a few days in the sun; after which spread on dishes or a sheet to dry.

**SALTING AND SMOKING MEAT.**—The following method, which requires only forty-eight hours, may be adopted for salting and smoking meat: A quantity of saltpetre, equal to the common salt that would be required for the meat in the usual way, must be dissolved in water. Into this the meat to be smoked must be put, and kept over a slow fire till all the water is evaporated. It must then be hung up in a thick smoke for twenty-four hours; when it will be found equal in flavor to the best Hamburg smoked meat that has been kept several weeks in salt, as red throughout and equally firm.

**INDIAN SLAP-JACKS.**—Scald a quart of Indian meal—when lukewarm, stir in a half a pint of flour, half a tea-cup of yeast and a little salt. When light, fry them in just fat enough to prevent their sticking to the frying-pan. Another method of making them, which is very nice, is to turn boiling milk or water on the Indian meal, in the proportion of a quart of the former to a pint of the latter—stir in three table-spoonfuls of flour, three eggs well beaten, and a couple of tea-spoonfuls of salt.



## GARDENER'S CHRONICLE

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**JANUARY**—Sow peas, spinach, lettuce, cabbages, radishes, parsley, beets, turnips, and carrots. Plant horse radish, Irish Potatoes. Transplant cabbages and lettuce.

**FEBRUARY**—Sow peas, spinach, lettuce, cabbages, radishes, corn, beets, turnips, and carrots. Parsnips, turnips, thyme, and other plants. Plant Irish potatoes, cabbages, and lettuce.

*Remarks.*—The same varieties of peas and corn this month as were directed in January. The principal crop of beets and carrots should now be sown. The common spinach should be sown in small quantities once in ten days, as the ground improves.

**MARCH**—Sow carrots, beets, Swiss chard, parsnips, salsify, cabbages, turnips, and onions. Plant okra, snap beans, squashes, cucumbers, and melons. Transplant cabbages, tomatoes, peppers, Guinea squashes, and lettuce.

*Remarks.*—All the above vegetables should be got in at as early a period as possible. Carrots should now be sown for a full crop, and from English seed. Lettuce should remain where it is sown. New Zealand spinach should be sown in hills, three feet apart each way. Radishes should be sown every three weeks. All Irish potatoes should be planted this month.

**APRIL**—Sow carrots, beets, salsify, turnips, cabbages, cauliflower, brocoli, tomatoes, peppers, radishes, lettuce, celery, leeks. Plant okra, snap beans, squashes, cucumbers, and melons. Transplant cabbages, tomatoes, peppers, Guinea squashes. Pick out celery.

*Remarks.*—The sowing of the main crop of carrots for summer and autumn, ought not to be delayed longer than this month, as they will be easily killed when up. The seed should be from Europe, or they will run to seed in the fall. Cucumbers, squashes, and melons, do not succeed well if delayed until now, but a few may be sown.

**MAY**—Sow cabbages, savoy, carrots, beets, turnips, cauliflower, brocoli, celery, radishes, and snap beans. Transplant cabbages. Pick out celery.

*Remarks.*—There is little probability of either beets, parsnips, carrots, or turnips succeeding at this season, especially the last; yet if wanted, a few may be ventured—under very favorable circumstances, they may succeed. If carrots be sown, the ground should be shaded and kept moist, and this continued to the plants sometime after they are up, or they will be killed by the hot sun.

**JUNE**—Sow cauliflowers, brocoli, cabbages, carrots, tomatoes. Plant snap beans, okra, and lettuce. Pick out cauliflower, brocoli, and celery.

*Remarks.*—This month is generally very dry and hot, and all the crops recommended to be sown now, must be protected from the sun; most of them should have been sown in April, and it is only in case of failure or omission that they should now be sown; the month may be considered bad for the sowing of seeds generally.

**JULY**—Sow early Dutch turnips, ruta бага, carrots, parsnips, cabbages, cauliflower, brocoli, endive, radishes, spinach. Plant snap beans, Irish potatoes, melons. Transplant cabbages, cauliflower, brocoli, tomatoes, and leeks.

*Remarks.*—A few only of carrots, parsnips, spinach, or radishes, should be sown as it is not very probable that they will succeed, unless well protected from the sun for some length of time, while young. The early Dutch turnips should also be sown towards the middle and last of the month, in small quantities. The Irish potatoes will be fit for use in October, and the tomatoes, will furnish a steady when the spring-grown crop has ceased to bear, and then continue till killed by a frost.

**AUGUST**—Sow peas, early Dutch and other varieties of turnips, ruta бага, onions, cabbages, cauliflower, brocoli, black Spanish radishes, carrots, beets, parsnips, salsify, lettuce, and endive. Plant snap beans. Transplant cabbages, cauliflower, brocoli, celery, ruta бага, endive.

*Remarks.*—Not much can be expected from peas sown this month, as they will be much crippled by the high winds and rain which we usually have; but if much wanted a few may be ventured. The beets and spinach are liable to the attacks of the worms, which destroy their leaves; should they escape these they will be fine.

**SEPTEMBER**—Sow early Dutch and other varieties of turnips, ruta бага, beets, Swiss chard, mangle wurtzel, carrots, parsnips, salsify, lettuce, spinach, cabbages, onions, radishes, endive. Plant snap beans. Transplant ruta бага, cabbages, cauliflower, brocoli, celery, lettuce, leeks, endive.

**OCTOBER**—Sow cabbages, lettuce, carrots, beets, turnips, radishes, spinach, salsify, parsnips, ruta бага. Transplant cabbages, cauliflower, brocoli, onions, lettuce, leeks, and endive.

**NOVEMBER**—Sow peas, cabbages, radishes, carrots, spinach, turnips, parsnips, lettuce, beets, salsify. Plant mazagon and Windsor beans. Transplant cabbages, lettuce, onions, and leeks.

**DECEMBER**—Sow peas, spinach, radishes, lettuce, cabbages, carrots, beets, parsnips, Irish Potatoes, mazagon and Windsor beans. Transplant cabbages, lettuce and onions.



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# COUNTING-HOUSE CALENDAR FOR

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## MARCH.

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## APRIL.

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## JUNE.

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## SEPTEMBER.

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## OCTOBER.

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## NOVEMBER.

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## DECEMBER.

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## JANUARY.

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## FEBRUARY.

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## MARCH.

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## APRIL.

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## MAY.

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## JUNE.

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



